

WHAT IS CLAIMED IS:

1. An optical disk device for conducting the recording/playback of an optical disk comprising a land region and a groove region that are formed on a substrate, said land region and groove region being used as a recording track that is the medium of the recording/ playback of information signal, and a pre-pit region including address information, comprising:

a track region detection means for detecting whether a recording track scanned by light beam is a land region or a groove region;

means for detecting a push-pull signal as a track difference signal based on the output of said track region detection means;

a calculation means for calculating said track difference signal by setting a subtraction ratio between one signal output and other signal output of said two signal outputs used to calculate said track difference signal; and

means for detecting address information from the output of said calculation means .

2. An optical disk device for conducting the recording/playback of an optical disk comprising a land region and a groove region that are formed on a substrate, said land region and groove region being used as a recording track that is the medium of the recording/ playback of information signal, and a pre-pit region including address information, comprising:

means for outputting envelope signal or peak hold signal from track add signal to be input;

means for binarizing said envelope signal or peak hold signal to be input;

a burst detection means for detecting burst signal with a specific mark included in the pre-pit region then outputting burst detection signal; and

a logical operation means for outputting binarized signal nearly enclosing the pre-pit region based on the output signal of said binarizing means and said burst detection signal.

3. An optical disk device for conducting the recording/playback of an optical disk comprising a land region and a groove region that are formed on a substrate, said land region and groove region being used as a recording

track that is the medium of the recording/ playback of information signal, and a pre-pit region including address information, comprising:

means for generating replica signal under a condition that a crosstalk component from the neighboring pre-pit region at a position where address information is played back is clearly detected; and

a crosstalk removing means for removing said replica signal as crosstalk component from a signal component played back.